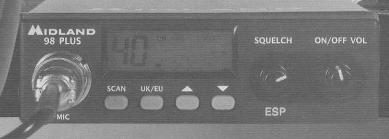
MIDLAND



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USER'S MANUAL

MIDLAND 98 PLUS

Downloaded from www.cbradio.nl

80-Channel mobile citizens band transceiver 27MHz F.M. (MPT 1382) United Kingdom System

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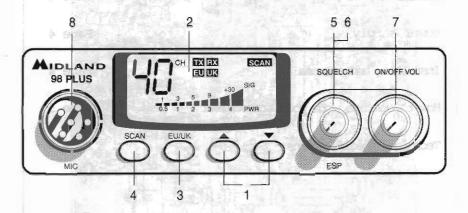
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INTRODUCTION

Your 80 channel Mobile CB represents the state-of-the art in high-tech engineering. Designed for 80 channel Citizen Band Mobile operation, this compact package is big in performance. It is a quality piece of electronic equipment, skilfully constructed with the finest components. The circuitry is all solid-state, mounted on rugged printed circuit boards. It is designed for many years of reliable, trouble-free performance. Your mobile CB has a built-in 80 channel Phase Locked Loop synthesizer circuit.

The PLL circuit achieves a new technique for generating all the required frequencies with fewer crystals. The result is a much tighter frequency control and superior reliability. This model incorporates the latest breakthrough in receive quality, the new ESP noise reduction/signal amplification function.

FUNCTION AND LOCATION OF THE CONTROLS

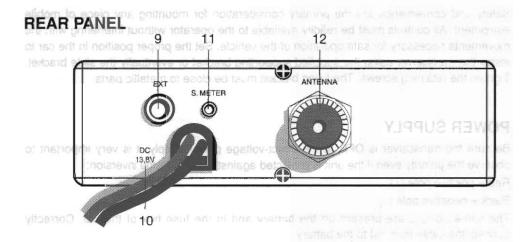


1. Channel UP/DOWN buttons

Multifunction backlighted display. It shows:

- A. Channel number selected (1 to 40)
- B. The receive signal strength and transmit signal power
- C. EU mode/UK mode
- D. RX/TX (RX = receive mode; TX = transmit mode
- F SCAN mode
- F. ESP on/off
- "EU/UK" push button band switch: In the EU position the transceiver operates on the 40 European channels (the display will show "EU").
 - In the UK mode it operates on the 40 UK channels (the display will show "UK").

- 4. "SCAN" button: With this control, you can automatically seek for a busy channel. Turn the squelch clockwise until the background noise is no longer heard. Press the "SCAN" button. The transceiver will scan automatically, all the channels until a carrier is received.
- "SQUELCH" control: For the maximum receiver sensitivity, the control must be regulated exactly where the receiver background noise disappears.
- "ESP on-off" control: Incorporated on the same control as the squelch, if this
 control is pushed, the ESP function is turned on ("ESP" displayed on LCD). Push
 control again and ESP function is turned off ("ESP" is not displayed on LCD).
- "ON-OFF/Volume" control: In "OFF" position your transceiver is OFF. Turn this
 control clockwise to switch on the radio. Turn the knob clockwise a little more to set the
 audio level until you get a comfortable reception.
- 8. Microphone jack: Insert the microphone connector into this jack.



 "EXT" jack: External loudspeaker jack – (the internal loud-speaker is inoperative when this is used).

it notable. Innert the antenna in the centre of whatever surface you choose

- 10. Power 13.8V DC: Power source input cable.
- 11. S. Meter jack: This allows an external "S. Meter" connection.
- 12. Antenna connector (SO239 connector type).



INSTALLATION

Safety and convenience are the primary consideration for mounting any piece of mobile equipment. All controls must be readily available to the operator without interfering with the movements necessary for safe operation of the vehicle. Set the proper position in the car to install the transceiver using the supplied supporting bracket or eventually the slide bracket. Tighten the retaining screws. The fixing bracket must be close to metallic parts.

POWER SUPPLY

Be sure the transceiver is OFF. In the direct-voltage power supply, it is very important to observe the polarity even if the unit is protected against the accidental inversion:

Red = positive pole (+)

Black = negative pole (-)

The same colours are present on the battery and in the fuse box of the car. Correctly connect the cable terminal to the battery.

INSTALLING AN ANTENNA

- Place the antenna as high as possible.
- 2. The longer the antenna, the better will be the performance. woll and was a sewood of
- 3. If possible, mount the antenna in the centre of whatever surface you choose.
- 4. Keep antenna cable away from noisy sources, such as the ignition switch, gauges, etc.
- 5. Make sure you have a solid metal-to-metal ground connection.
- 6. Prevent cable damage during antenna installation.

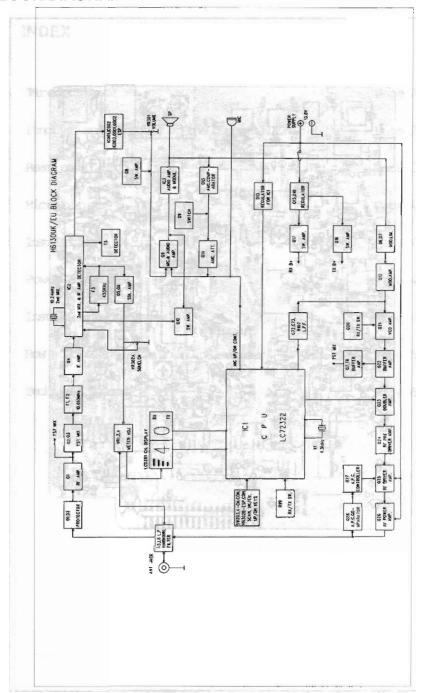
WARNING: To avoid damage, never operate your CB radio without connecting a proper antenna. A periodical control of the cable and of the S.W.R. is recommended.

HOW TO OPERATE WITH YOUR TRANSCEIVER

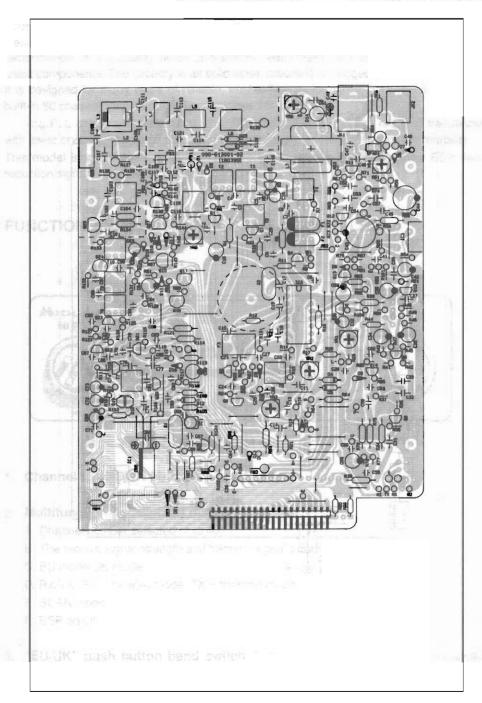
- 1. Screw the microphone plus into the microphone jack.
- 2. Make sure your antenna is securely connected to the antenna connector.
- Make sure the SQUELCH control is turned fully counterclockwise.
- Turn on the unit and adjust the volume control.
- 5. Select your desired channel.
- 6. To transmit, press the PTT button and speak in a normal tone of voice.
- 7. To receive, release the PTT button.

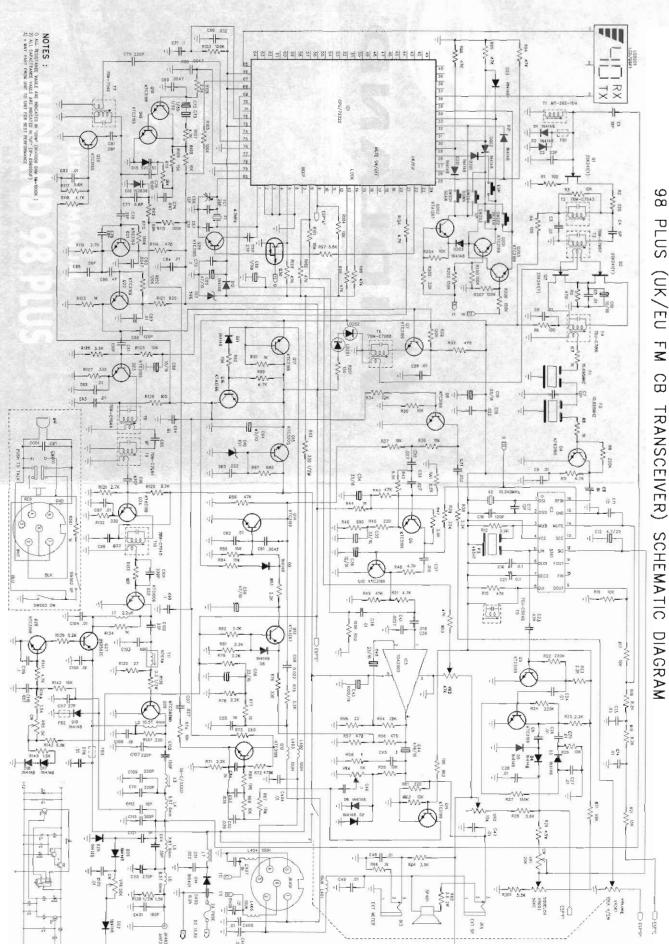
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Channels	80
Frequency range	UK: 27.60125 – 27.99125 MHz
Mavies	CEPT: 26.965 – 27.405 H z
Frequency control	PLL
DC input	208 Parodocalm and other and appropriate and 13.8V DC
Size	nedd. horozona (M) x 190(D) x 40(H) mm
Weight	0.737 kg
	en para dese part for
RECEIVER	Nest
Receiving system	dual conversion superheterodyne 1st IF 10.695 MHz / 2nd IF 455 KHz
Intermediate frequency	1st IF 10.695 MHz / 2nd IF 455 KHz
	without ESP 0.7mV for 20 dB S/N
	with ESP 0.3mV for 20 dB S/N
	less than 3% @ 1 KHz
Selectivity	
TRANSMITTER	
Output power	4W @ 13.8V DC
	FM 1.8 KHz ± 0.2 KHz
	~ 300 Hz to 3.4 KHz
Output impedance	RF 50 Ohm Unbalanced

All specifications are subject to change without notice.



PCB LAYOUT DIAGRAM - MAIN BOARD MARDAID MODIS





98 PLUS MURALU ENTERSHEANSO

MIDLAND

Imported by Alan UK Ltd
Unit 2, Callenders, Paddington Drive, Swindon SN5 7YW, UK

EC Declaration of Conformity to R&TTE Directive 1999/5/EC

Manurac	turer	:	705, Houston Center, 63, Moody road, TST, Kowloon, Hong Kong
Represe	ntative	:	Alan UK Ltd
0.000			Unit 2, Callenders,
(residing in holding th			Paddington Drive, Swindon, SN5 7YW
notating tr	ie icr)		Swilldon, SNS 71W
Product	Apparatus	:	Citizens Band Transceiver
Type Nu	mber	:	Midland 38
Variants	include	ė	Kernow 3100, 4100,5100 and Midland 98 EMTEK 88-004 Declaration
			forms to all the applicable requirements of E-marked accordingly:
Article 3.1a.	(Standard(s)) u	sed to	show compliance with LVD, 73/23/EEC:
	*** *************		/ Compliant Test Report No:
Article 3.1b;	1.1b: (Standard(s)) used to show compliance with EMC Directive, 89/336/EEC:		show compliance with EMC Directive, 89/336/EEC:
	· · · · · · · · · · · · · · · · · · ·		/ Compliant Test Report No: CTMS 2001/1944
Article 3.2:	Conformity was assessed via Annex IV, using a Technical Construction File examined by Notified Body 10885, Cambridge Test & Measurement Ltd Standard(s) used to show compliance:		
			1 Compliant Test Report No:
	Signature		Mycoto
	Name	:	ANTONY (Cours
	Title	:	DRECTOR
	Date	;	18/07/2001

EC Declaration of Conformity to R&TTE Directive 1999/5/EC

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Conformity was assessed via Annex IV, using a Technical Construction
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